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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/939,756	08/28/2001	Koji Ogusu	01-193	3229
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POSZ & BETHARDS, PLC 11250 ROGER BACON DRIVE			EXAMINER	
SUITE 10 RESTON, VA			KOVALICK, VINCENT E	
ALSTON, VA	20190		ART UNIT	PAPER NUMBER
			2673	12
			DATE MAILED: 05/13/2003	T

Please find below and/or attached an Office communication concerning this application or proceeding.

Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS THE MAILING DATE of this communication appear after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply with the period for reply specified above is less than thirty (30) days, a reply with 1 NO period for reply is specified above is less than thirty (30) days, a reply with 1 NO period for reply is specified above. The maximum statutory period will a Failure to reply within the set or extended period for reply will, by statute, cat Any reply received by the Office later than three months after the mailing date earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 Aug 2a) This action is FINAL. 2b) This at 3) Since this application is in condition for allowance closed in accordance with the practice under Ex 1 Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn for the above claim(s) is/are withdrawn for 5) Claim(s) 8-10 is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) 1-7 is/are rejected. 7) Claim(s) 1-7 is/are rejected to By the Examiner. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted of Applicant may not request that any objection to the drawn for approved, corrected drawings are required in reply to 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120	SET TO EXPIRE 3 No. In no event, however, may a shin the statutory minimum of this oply and will expire SIX (6) MO see the application to become A se of this communication, even if the except for formal management of the except for formal managem	MONTH(S) FROM a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133). If timely filed, may reduce any atters, prosecution as to the merits is D. 11, 453 O.G. 213.
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13) Acknowledgment is made of a claim for foreign prior	ity under 35 U.S.C. §	119(a)-(d) or (f)
None of:		· / · · · · · · · · · · · · · · · · · ·
1. Certified copies of the priority documents have	been received.	
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DETAILED ACTION

1. This Office Action is in response to Applicant's Patent Application, Serial No. 09/939,756, with a File Date of August, 28, 2001.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishizuka (USP 6,351,255).

Relative to claim 1, Ishizuka et al. **teaches** a luminous display and its driving method (col. 5, lines 2-67; col. 6, lines 1-67 and col. 7, lines 1-30); Ishizuka et al. further **teaches** a driving method for driving luminous elements having a plurality of luminous elements, each of which is provided at an intersection of an anode line and a cathode line arranged in a matrix, the anode line being one of scan lines and drive lines and the cathode line being one of other of scan lines and drive lines, the driving method comprising the step of: driving the luminous element provided at an intersection of a desired drive line to emit light in synchronism with scanning while scanning the scan lines (col. 5, lines 6-17), wherein at least one of the scanning lines is first connected to a first voltage, and remaining other scanning lines are connected at the same

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time to a second voltage different from the first voltage when switching the scanning line (col. 8, lines 60-64).

The difference between the teaching of Ishizuka et al. and that of the instant invention is that Ishizuka et al. **does not specifically teach** scanning the scan lines at a specific frequency, though it would have been obvious to a person of ordinary skill in the art at the time of the invention in that it is well understood in the art an in common on practice that scanning display scan lines is done at a predefined specific frequency.

Regarding claim 5, Ishizuka et al. further teaches said driving method wherein only one scanning line is connected to the first voltage (col. 8, lines 60-64).

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishizuka et al. as applied to claim 1 in item 3 hereinabove, and further in view of Taguchi et al. (USP 6,191,779). Regarding claim 2, Ishizuka et al. **does not teach** the driving method wherein the first voltage is a source voltage, and the second voltage is a ground voltage.

Taguchi et al. **teaches** a liquid crystal display device for controlling drive of a liquid crystal display (col. 1 lines 53-67; col. 2, lines 1-67; col. 3, lines 1-67 and col. 4, lines 1-34);

Taguchi et al. further **teaches** said driving method wherein the first voltage is a source voltage, and the second voltage is a ground voltage (col. 8, lines 31-39).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate in the device as taught by Ishizuka et al. the feature as taught by Taguchi et al. in order to incorporate the means to sequentially activate the scanning lines by applying the first voltage (the higher voltage) to a scanning line while maintaining the remaining scan lines at ground (zero voltage).

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5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishizuka et al. as applied to claim 1 in item 3 hereinabove, and further in view of Erhart et al. (USP 6,201,522). Relative to claim 3, Ishizuka et al. **does not teach** the said driving method wherein the first voltage is a negative voltage, and the second voltage is a ground voltage.

Erhart et al. **teaches** a power saving circuit and method for driving a liquid crystal display (col. 4, lines 63-67; col. 5, lines 1-67; col. 6, lines 1-67; col. 7, lines 1-67; col. 8, lines 1-67 and col. 9, lines 1-8)); Erhart et al. further **teaches** said driving method wherein the first voltage is a negative voltage, and the second voltage is a ground voltage (col. 13, lines 36-41).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate in the device as taught by Ishizuka et al. the feature as taught by Erhart et al. in order to put in place the means to speed the build-up to emission of the luminous elements to in turn increase the scanning speed of the display device.

6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishizuka et al. as applied to claim 1 in item 3 hereinabove, and further in view of Sugahara et al. (USP 6,239,777).

Relative to claim 4, Ishizuka et al. **does not teach** the said driving method wherein a plurality of scanning lines is connected to the first voltage.

Sugahara et al. **teaches** a display device (col. 2, lines 25-67; col. 3, lines 1-67; col. 4, lines 1-67; col. 5, lines 1-67; col. 6, lines 1-67 and col. 7, lines 1-9); Sugahara et al. further **teaches** said driving method wherein a plurality of scanning lines is connected to the first voltage (col. 25, lines 45-48).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to

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incorporate in the device as taught by Ishizuka et al. the feature as taught by Sugahara et al. in order to reset all scanning lines to the same voltage potential when shifting to the next scanning line, this increases the build up of display speed form applying a voltage to actual emission.

7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ishizuka et al. as applied to claim 1 in item 3 hereinabove, and further in view of Sasaki et al. (USP 5,404,031). Relative to claim 6, Ishizuka et al. does not teach the said driving method wherein the luminous element is a current injection type luminous element.

Sasaki et al. **teaches** a semiconductor light emitting device (col. 2, lines 17-48); Sasaki et al. further **teaches** the said driving method wherein the luminous element is a current injection type luminous element (col. 1, lines 15-18 and col. 6, lines 50-56).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate in the device as taught by Ishizuka et al. the feature as taught by Sasaki et al. in order to use a luminous element that provides for a fast buildup of emission to increase the speed of an image display device.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki et al. as applied to claim 6 in item 7 hereinabove, and further in view of Ishizuka et al.

Regarding claim 7, Sasaki et al. **does not teach** said driving method wherein the current injection type luminous element is an organic electroluminescent element.

Ishizuka et al. teaches said driving method wherein the current injection type luminous element is an organic electroluminescent element (col. 5, lines 53-56).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to incorporate in the device as taught by Sasaki et al. the feature as taught by Ishizuka et al. in

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order to use an organic electroluminescent element that has a high luminescence intensity and maintains stable performance with repeated use.

Allowable Subject Matter

- 9. Claims 8-10 are allowed.
- 10. The following is an examiner's statement of reasons for allowance:

Relative to claim 8, the major difference between the teachings of the prior art of record (USP 6,351,255, Ishizuka et al.; USP 6,191,779, Taguchi et al. and USP 6,201,522, Erhart et al.) and that of the instant invention is that said prior art of recored **does not teach** a driving method wherein an already selected scanning line is connected to the source voltage and a reverse bias is applied thereto, and at the same time remaining scanning lines other than the already selected scanning line are connected to a ground voltage so as to discharge a charge stored to the remaining scanning lines, in a course of switching from the already selected scanning line to a next scanning line.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fujita

U. S. Patent No.	6,501,226	Lai et al.
U. S. Patent No.	6,002,206	Harrison et al.
U. S. Patent No.	5,844,368	Okuda et al.

4,652,872

U. S. Patent No.

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Responses

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent E Kovalick whose telephone number is 703 306-3020. The examiner can normally be reached on Monday-Thursday 7:30- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 703 305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872-9314 for regular communications and 703 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 306-0377.

Vincent E. Kovalick

May 13, 2003